

09/976,477 :B1

Industry  
Canada Industrie  
Canada

Canada

Français  
HomeContact Us  
Site MapHelp  
What's NewSearch  
About UsCanada Site  
Registration

## Strategic Index:

A B C D E F G H I J K L M N O P Q R S T U V W X Y  
Z

C I P O O P I C

strategis.gc.ca

C I P O  
H O M E

## The Canadian Intellectual Property Office

**Canadian Patents Database**

10/26/2001 - 14:17:47

(12) Patent Application:

(11) CA 2187050

(54) DOOR MECHANISM FOR CELLULAR TRANSCIEVER

(54) MECANISME DE CAPOT D'EMETTEUR-RECEPTEUR

[View or Download Images](#)

(72) Inventors (Country):      **Leman, Ari** (United States)  
**Humphreys, Morris** (United States)  
**Park, Bong Choon** (Republic of Korea)

(73) Owners (Country):      **NOKIA MOBILE PHONES LTD.** (Finland)

(71) Applicants (Country):

(74) Agent:      **Sim & McBurney**

(45) Issued on:

(22) Filed on:      **Oct. 3 , 1996**

(43) Laid open on:      **May 2 , 1997**

Examination requested:      **Aug. 31, 1999**

(51) International Class (IPC):      **H05K 5/03; H04Q 7/32**

Patent Cooperation Treaty (PCT):      **No**

(30) Application priority data:

Application No.	Country	Date
08/551,375	United States	Nov. 1 , 1995

Availability of licence:      **N/A**

Language of filing:      **English**

**ABSTRACT:**

A unique hinge construction is provided for pivotally connecting a cover to a main body of a transceiver. The main body comprises a base and upstanding sidewalls and an endwall. Movable between a closed position generally overlying the main body and an operative angularly disposed position, the cover includes a pair of spaced apart ears projecting from an end thereof, said ears having opposed key slots formed therein being aligned with opposed mounting bores in the sidewalls adjacent the endwall. A pair of hinge shafts are rotatably received in an associated one of the mounting bores in the sidewalls on the main body. Each hinge shaft includes a key member engageable with an associated one of the key slots in the opposed ears for rotation therewith and a central member having a uniformly contoured outer surface defined by elevationally opposed convex shaped lobes, laterally opposed concave shaped depressions, and smooth transition zones joining the lobes and said depressions. A pair of spring members, each having a convex shaped surface fixed to the main body are biased into engagement with the uniformly contoured outer surface of its associated shaft means for maintaining the cover closed in one instance and in at least one operative position relative to the main body in another instance.

**CLAIMS:** [Show all claims](#)

\*\*\* Note: Data on abstracts and claims is shown in the official language in which it was submitted.

---

**View or Download Images :**

- Cover Page Image
- Abstract Image
- Claims Image
- Disclosures Image
- Drawings Image

[View the Image](#)[Download in Adobe PDF](#)[Top of Page](#)

Last Modified: 2001/06/13

[Important notices and disclaimers](#)  
[Privacy Statement](#)

ABSTRACT

A unique hinge construction is provided for pivotally connecting a cover to a main body of a transceiver. The 5 main body comprises a base and upstanding sidewalls and an endwall. Movable between a closed position generally overlying the main body and an operative angularly disposed position, the cover includes a pair of spaced apart ears projecting from an end thereof, said ears having opposed 10 key slots formed therein being aligned with opposed mounting bores in the sidewalls adjacent the endwall. A pair of hinge shafts are rotatably received in an associated one of the mounting bores in the sidewalls on the main body. Each hinge shaft includes a key member 15 engageable with an associated one of the key slots in the opposed ears for rotation therewith and a central member having a uniformly contoured outer surface defined by elevationally opposed convex shaped lobes, laterally opposed concave shaped depressions, and smooth transition 20 zones joining the lobes and said depressions. A pair of spring members, each having a convex shaped surface fixed to the main body are biased into engagement with the uniformly contoured outer surface of its associated shaft means for maintaining the cover closed in one instance and 25 in at least one operative position relative to the main body in another instance.